

**CENTRAL AND SOUTHERN FLORIDA PROJECT  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA**

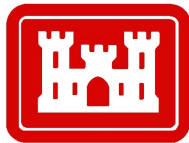
**8.5 SQUARE MILE AREA**

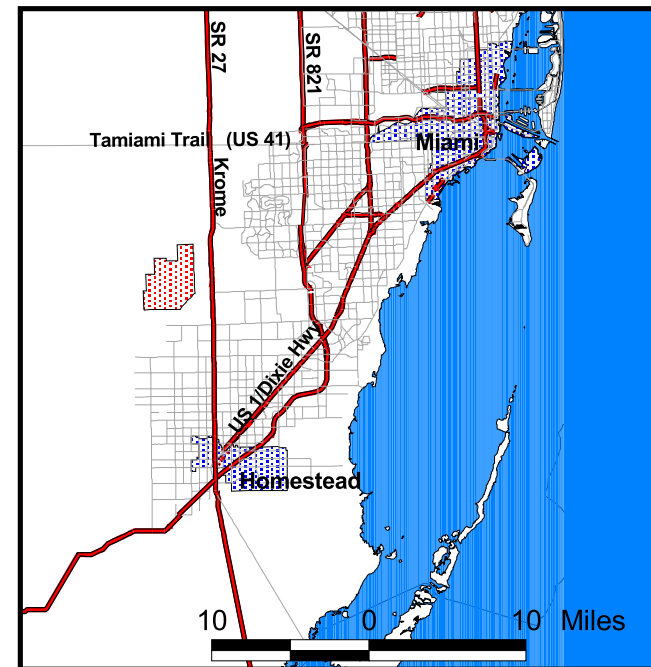
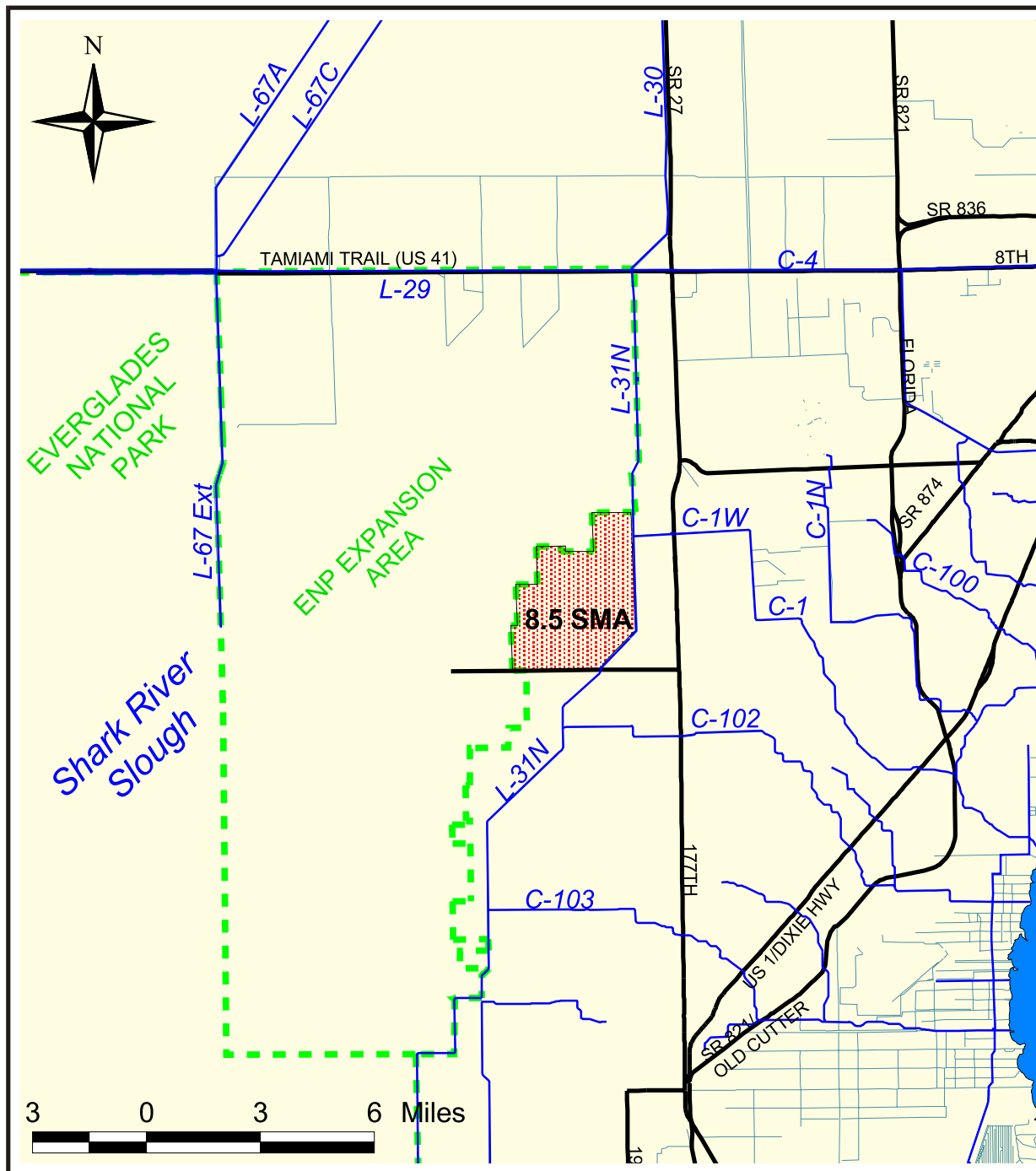
**SUPPLEMENT TO THE FINAL ENVIRONMENTAL  
IMPACT STATEMENT**

FIGURES

**DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA**

**July 2000**





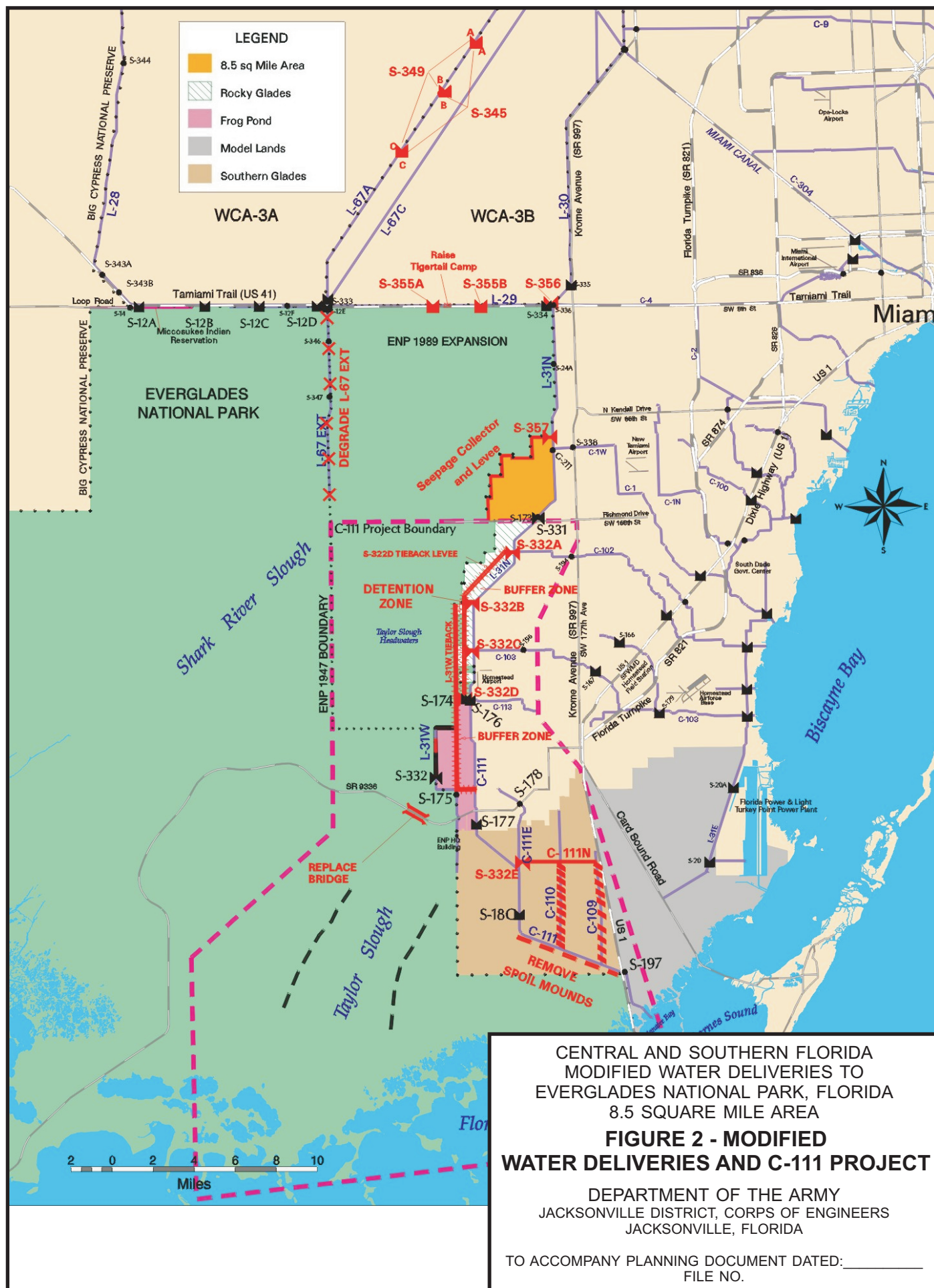
CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA  
8.5 SQUARE MILE AREA

**FIGURE 1**  
**PROJECT LOCATION MAP**

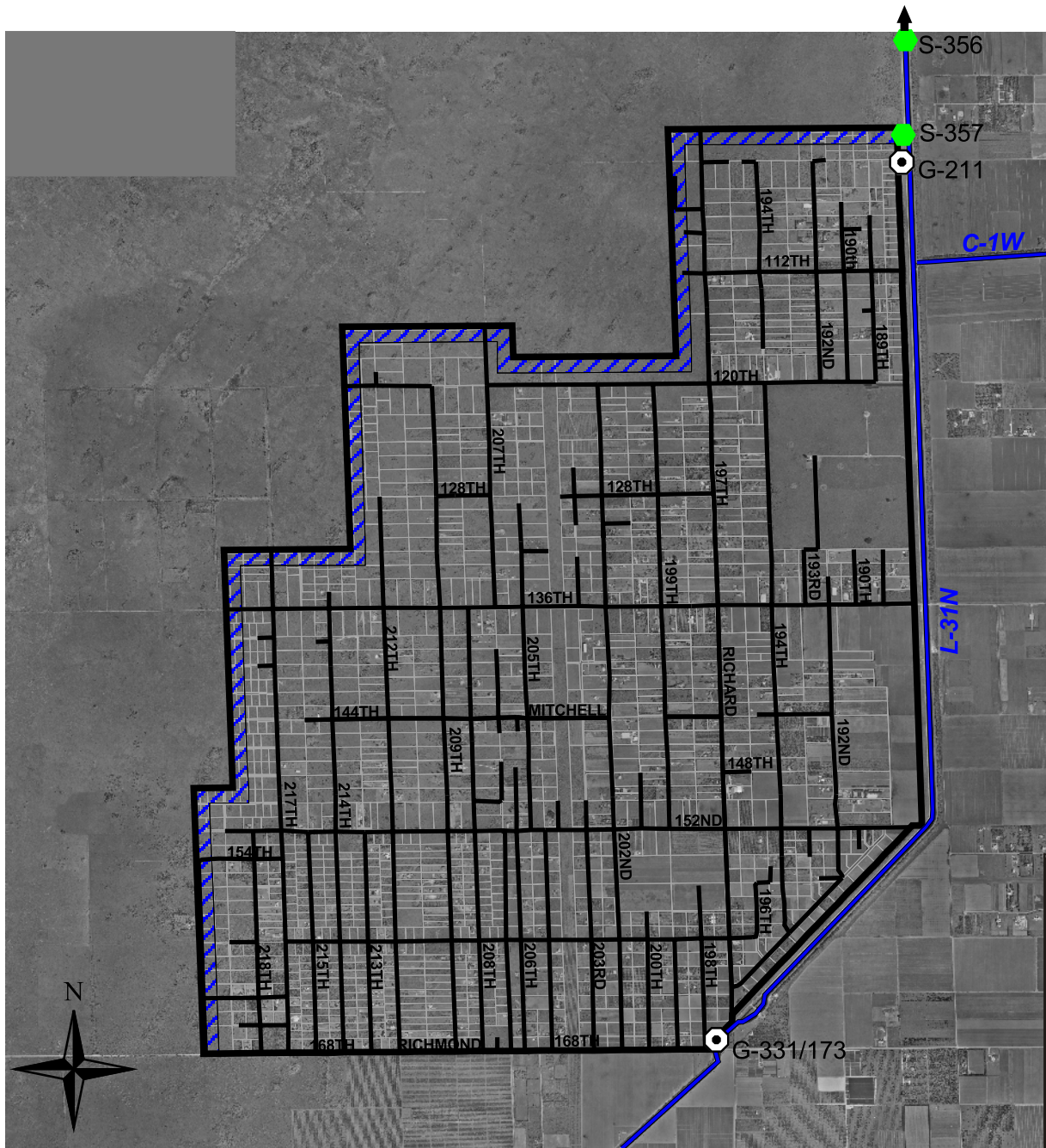
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA





TO ACCOMPANY PLANNING DOCUMENT DATED: \_\_\_\_\_  
FILE NO: \_\_\_\_\_

FILE NO:







-  Levees and Seepage Canal
-  Proposed Structures
-  Existing Structures
-  Canals

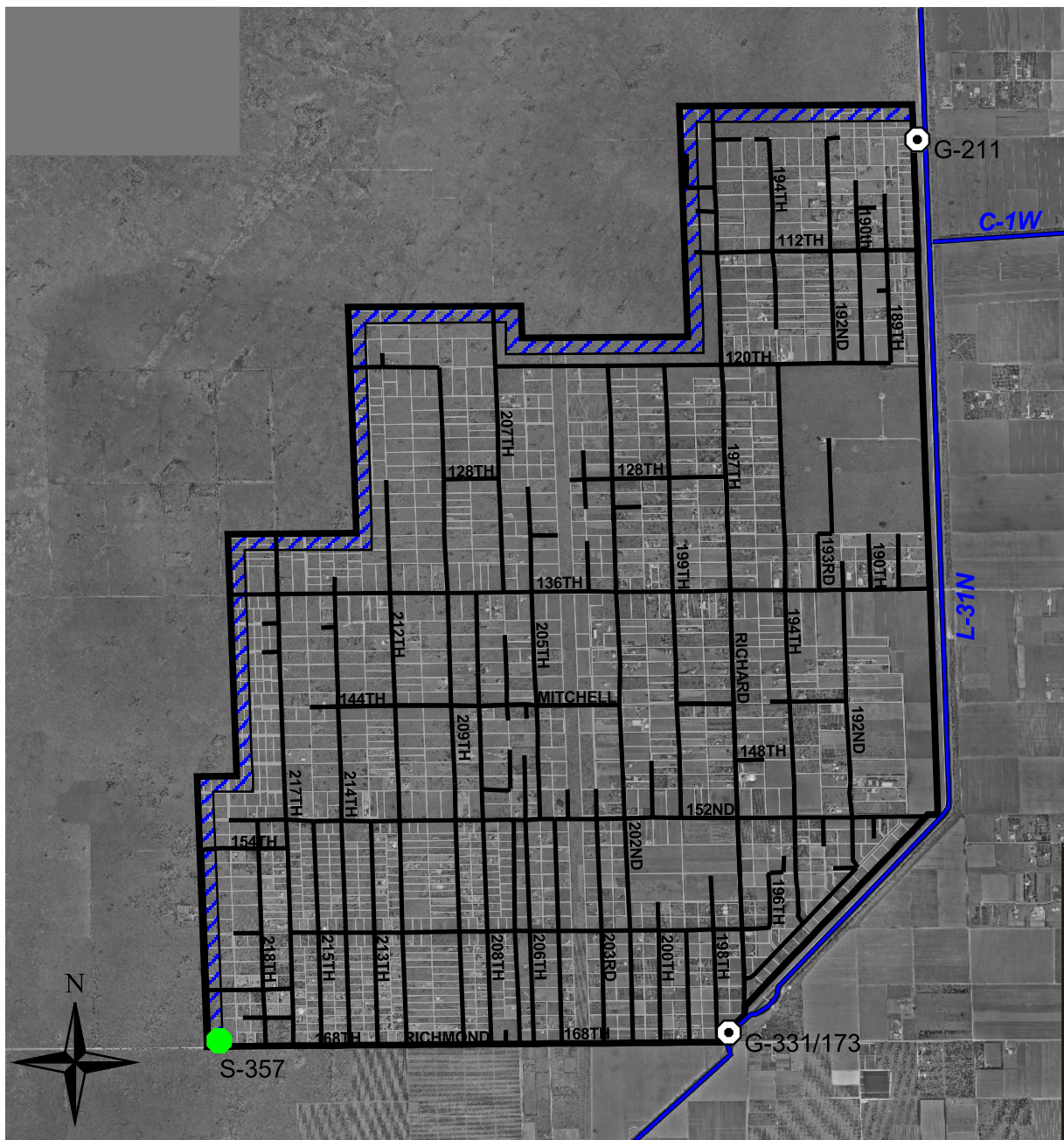
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8.5 SQUARE MILE AREA





### FIGURE 3A - ALTERNATIVE 1 - AUTHORIZED GDM PLAN

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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FILE NO: \_\_\_\_\_





-  Levees and Seepage Canal
-  Proposed Structure
-  Existing Structures
-  Canals

CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
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### FIGURE 3B - ALTERNATIVE 2B - MODIFIED GDM PLAN

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

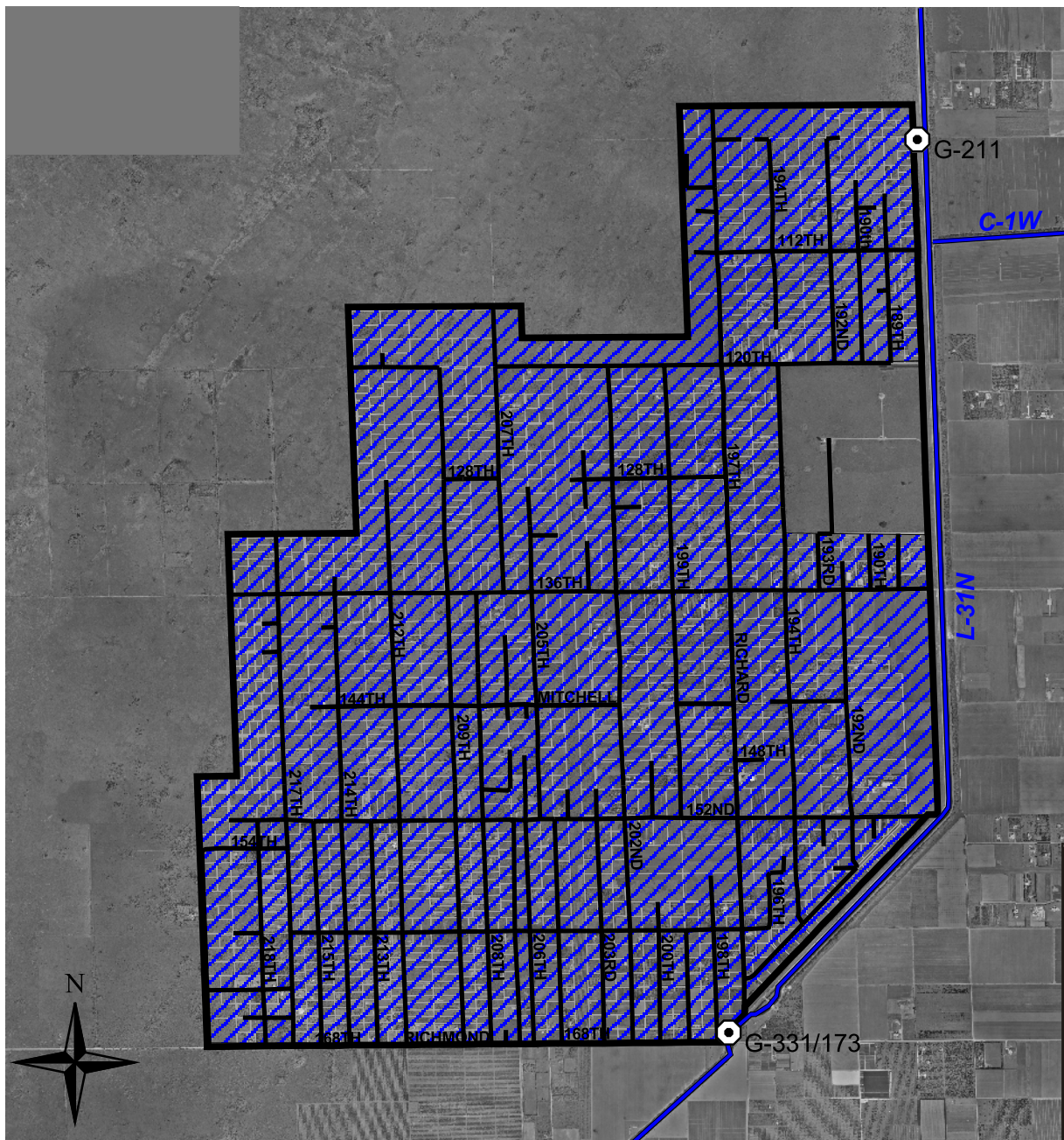
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FILE NO: \_\_\_\_\_














-  Total Buy-Out Area
-  Existing Structures
-  Canals

CENTRAL AND SOUTHERN FLORIDA  
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8.5 SQUARE MILE AREA

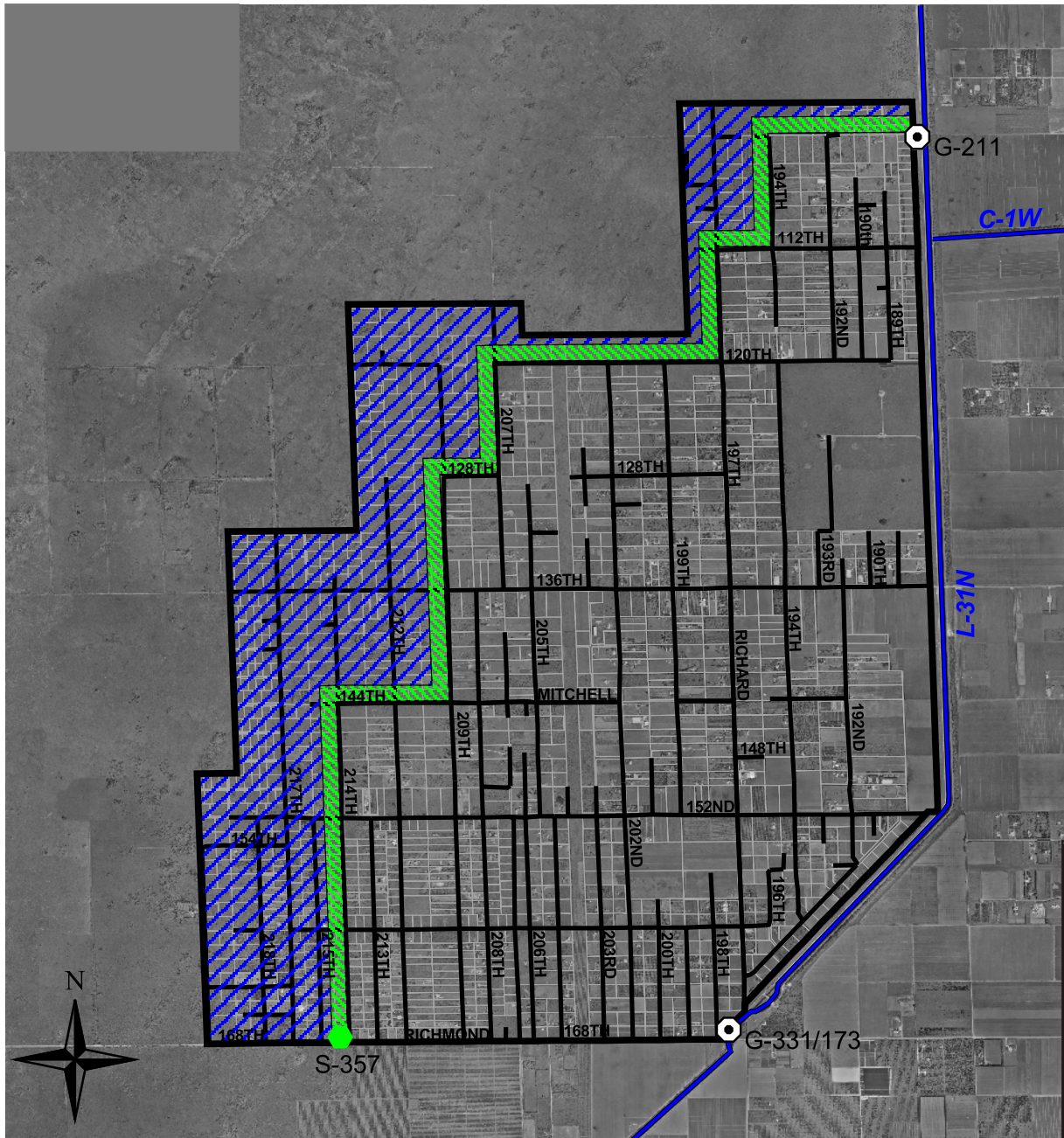
### FIGURE 3E - ALTERNATIVE 5 - TOTAL BUY-OUT PLAN






DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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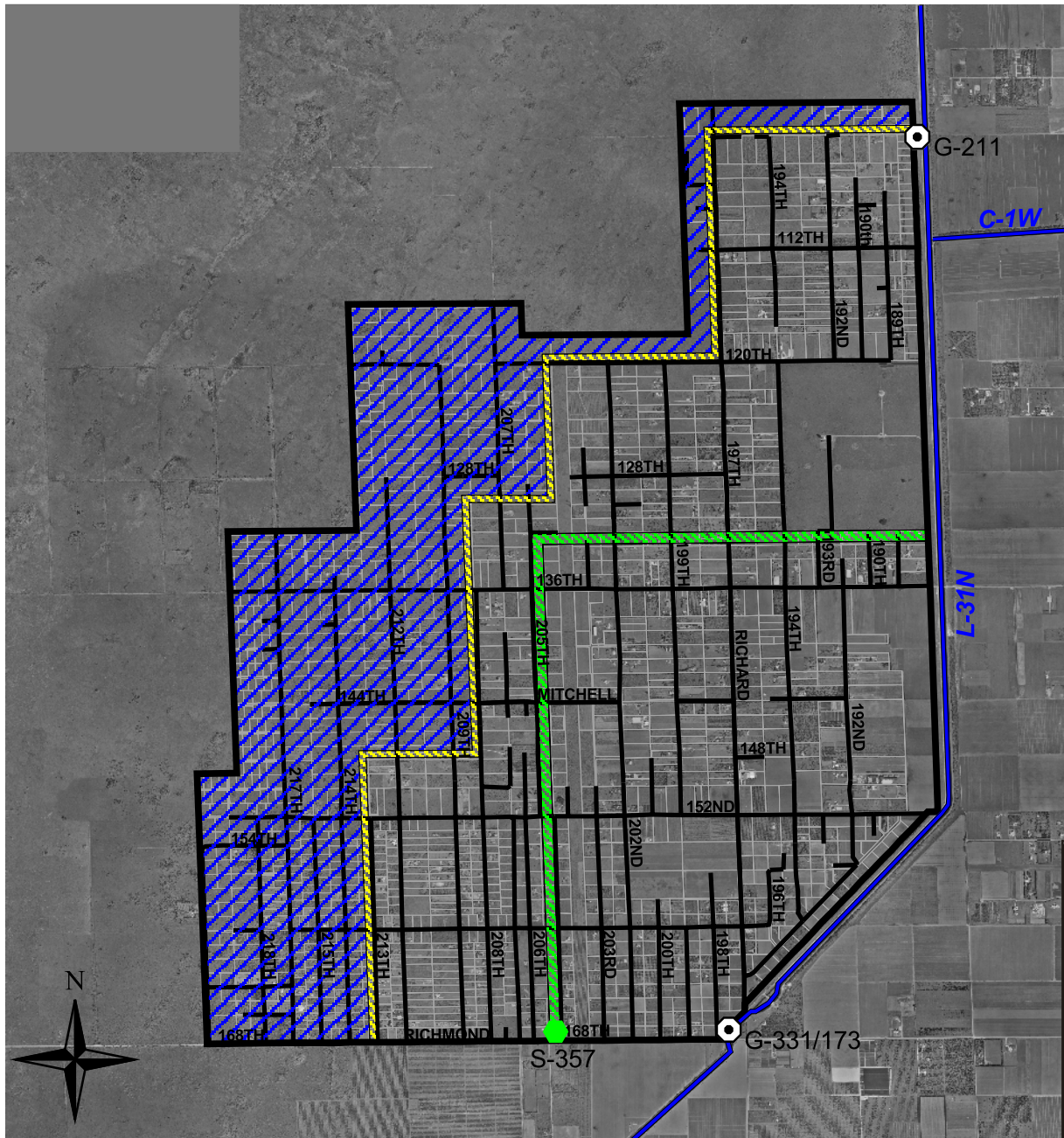








-  Levees and Seepage Canal
-  Buy-Out Area
-  Proposed Structure
-  Existing Structures
-  Canals

CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
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8.5 SQUARE MILE AREA  
**FIGURE 3G - ALTERNATIVE 6C -  
MODIFIED WESTERN PORTION OF 8.5 SMA  
AS BUFFER (SOR BOUNDARY)**  
DEPARTMENT OF THE ARMY  
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JACKSONVILLE, FLORIDA

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FILE NO: \_\_\_\_\_





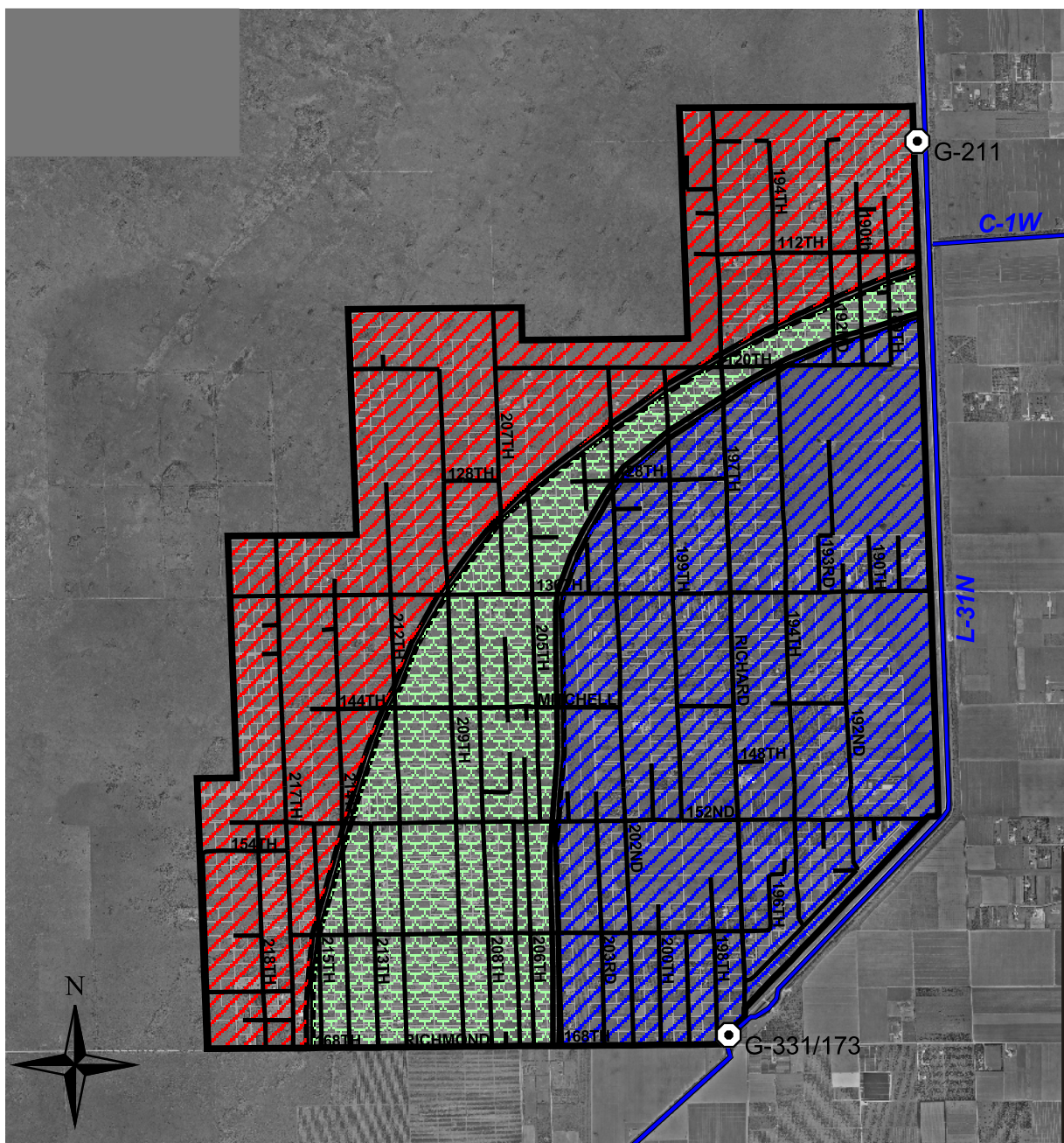
-  Canal & Internal Levees
-  Buy-Out Area
-  Perimeter Levee
-  Proposed Structure
-  Existing Structures
-  Canals








CENTRAL AND SOUTHERN FLORIDA  
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8.5 SQUARE MILE AREA  
**FIGURE 3H - ALTERNATIVE 6D -  
MODIFIED WESTERN PORTION OF 8.5 SMA  
AS BUFFER**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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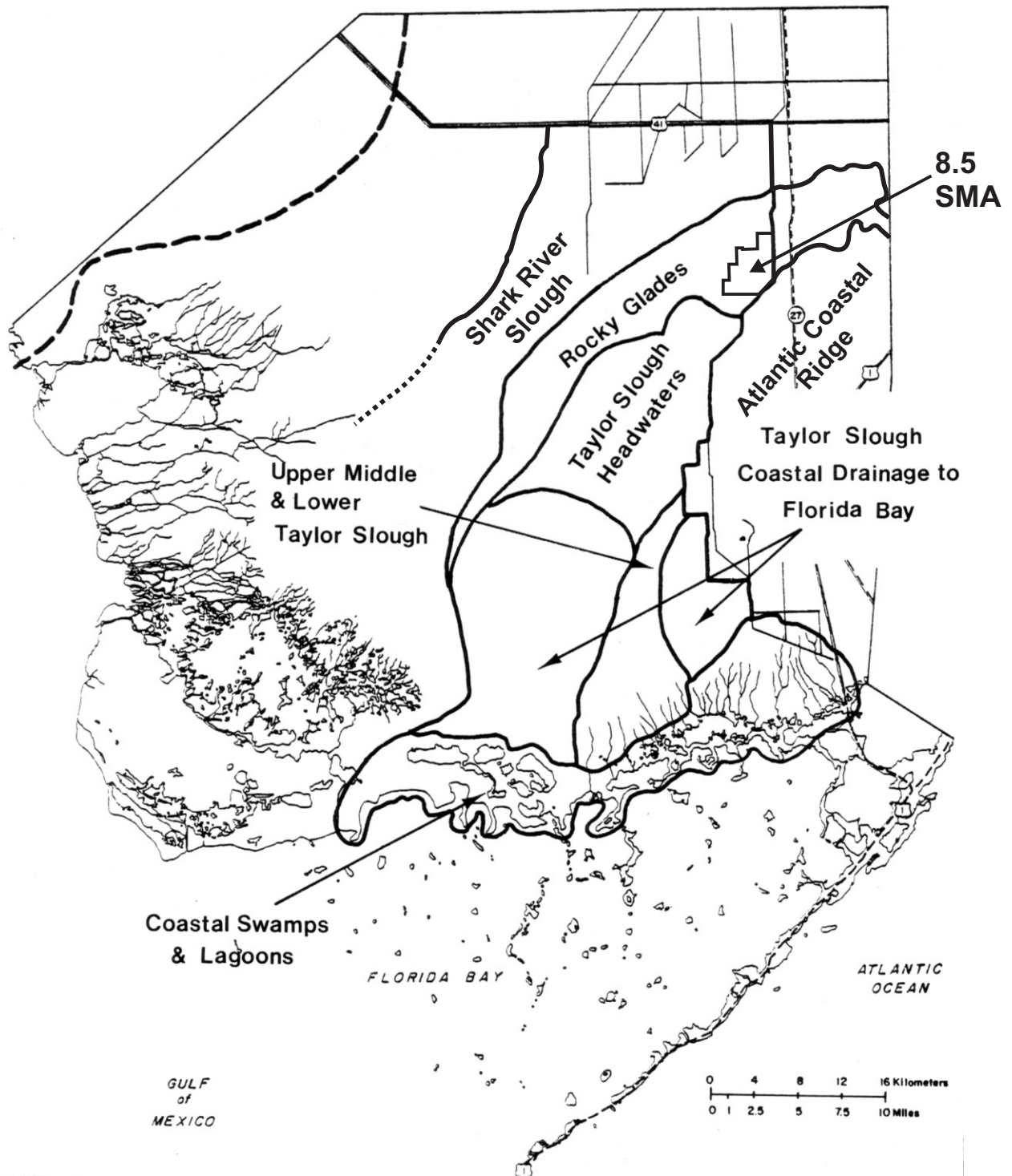
- 
-  Levees
  -  Buy-Out Area
  -  Floodway/Swale
  -  Flood Mitigation
  -  Existing Structures
  -  Canals

CENTRAL AND SOUTHERN FLORIDA  
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**FIGURE 3J - ALTERNATIVE 8A**  
**WESTERN PORTION OF 8.5 SMA**  
**AS FLOW-WAY**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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FILE NO: \_\_\_\_\_





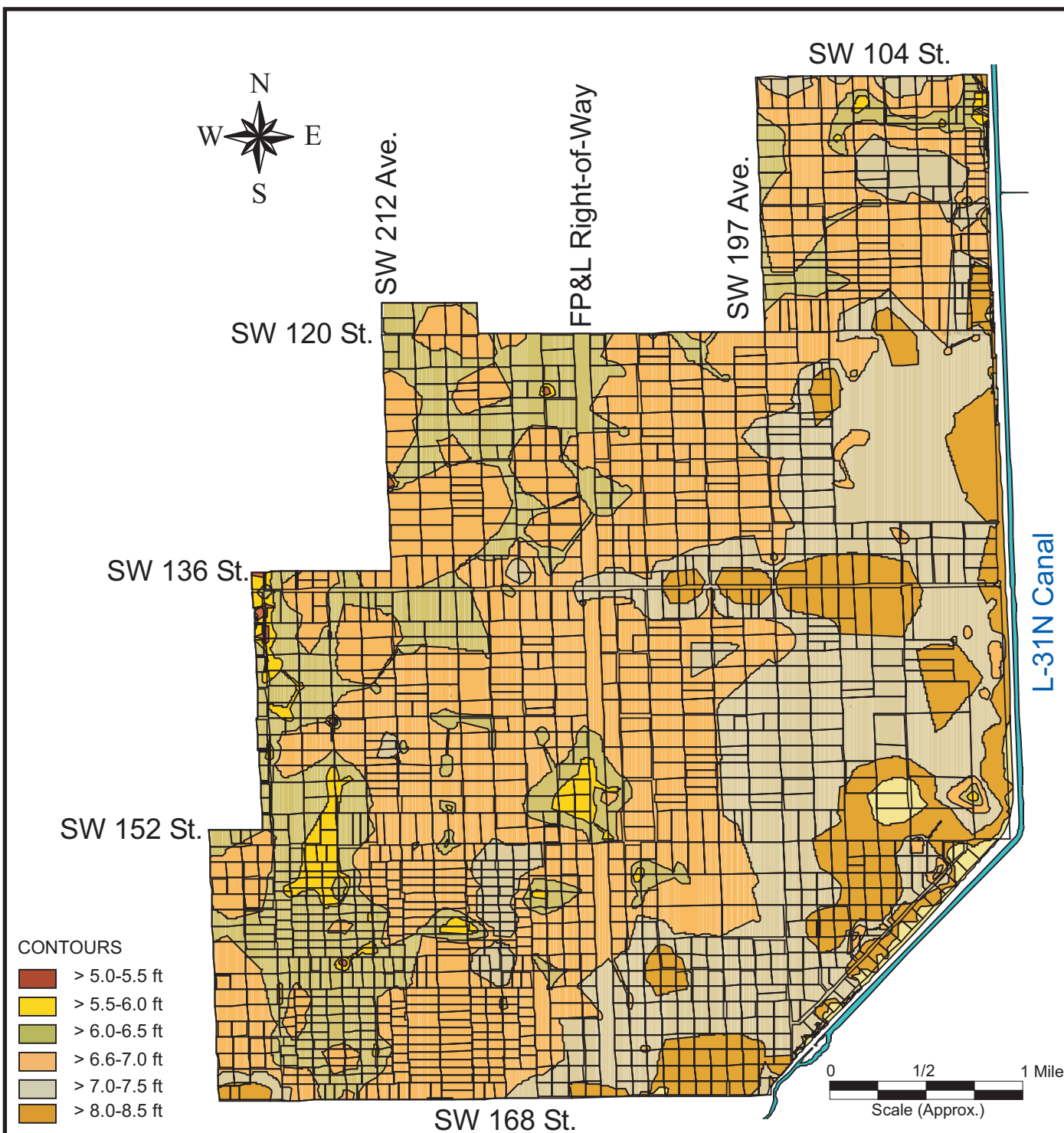


CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
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8.5 SQUARE MILE AREA

**FIGURE 4**  
**PHYSIOGRAPHIC SETTING**

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

TO ACCOMPANY PLANNING DOCUMENT DATED: \_\_\_\_\_  
FILE NO. \_\_\_\_\_



Source: DERM (1998)

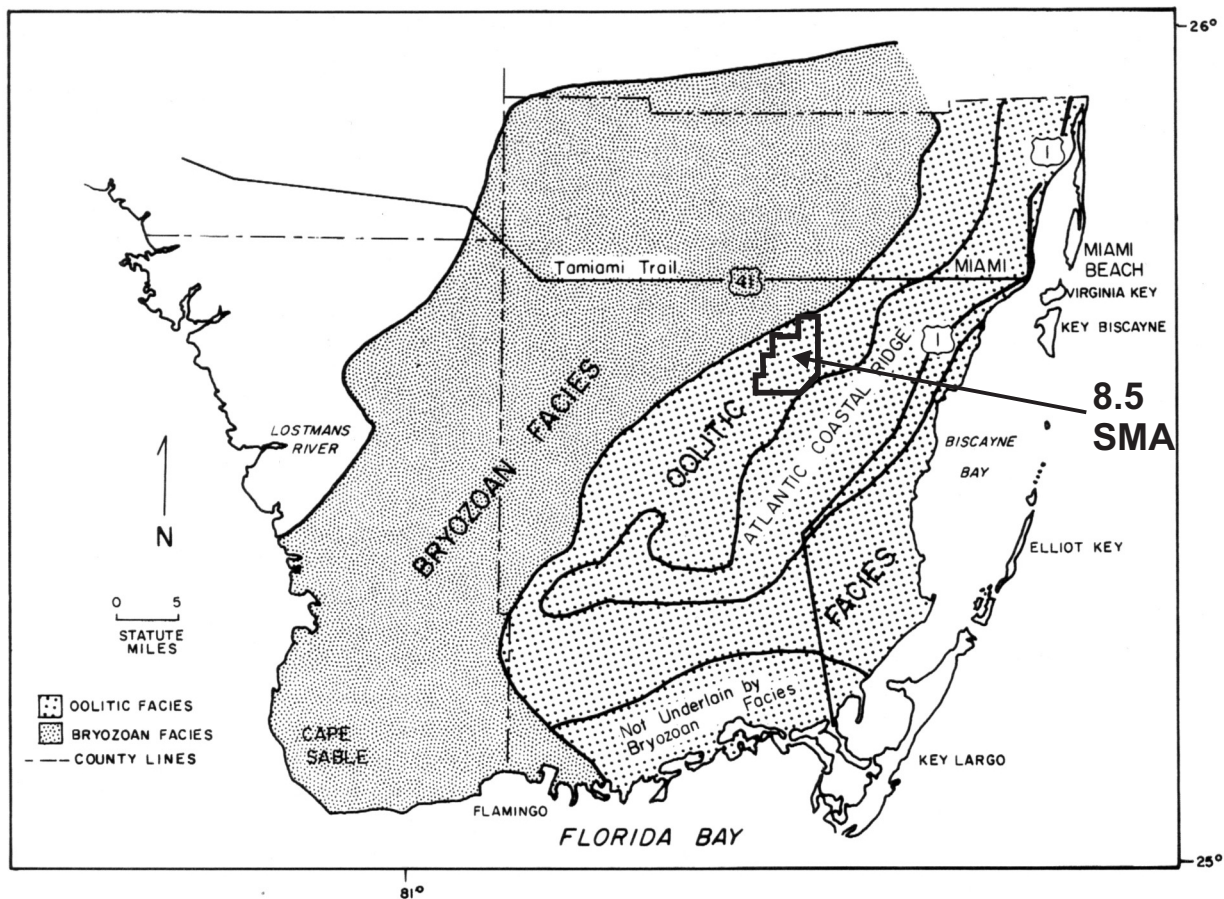
CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA  
8.5 SQUARE MILE AREA

**FIGURE 5**  
**TOPOGRAPHIC SETTING**

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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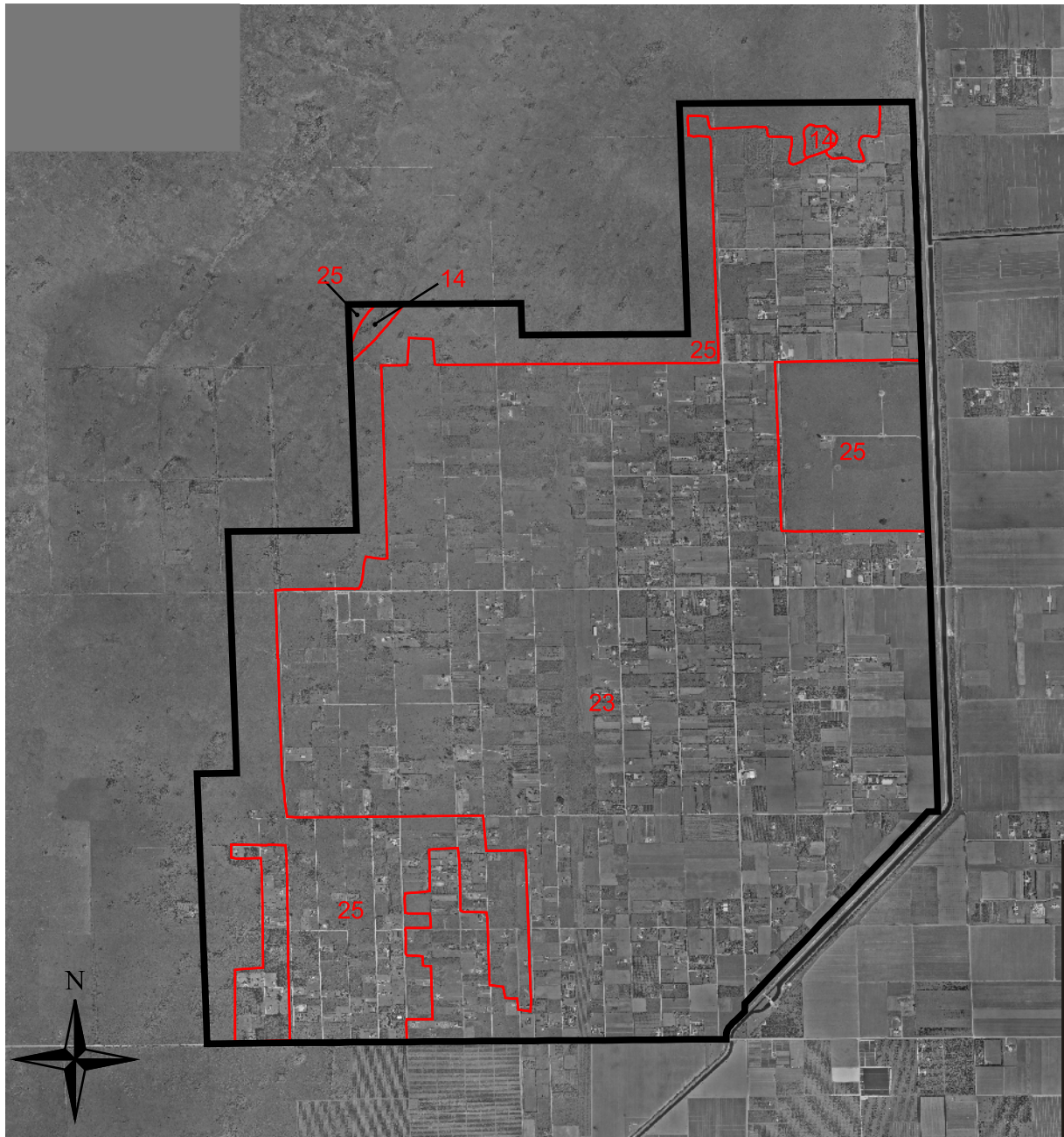
### FIGURE 6 - DISTRIBUTION OF THE MIAMI LIMESTONE FORMATION

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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(Adapted from Schomer and Drew 1982)

- 14 - Dania muck, depressional
- 23 - Chekika very gravelly loam
- 25 - Biscayne-Rock outcrop complex



CENTRAL AND SOUTHERN FLORIDA  
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**FIGURE 7**  
**SOILS MAP**

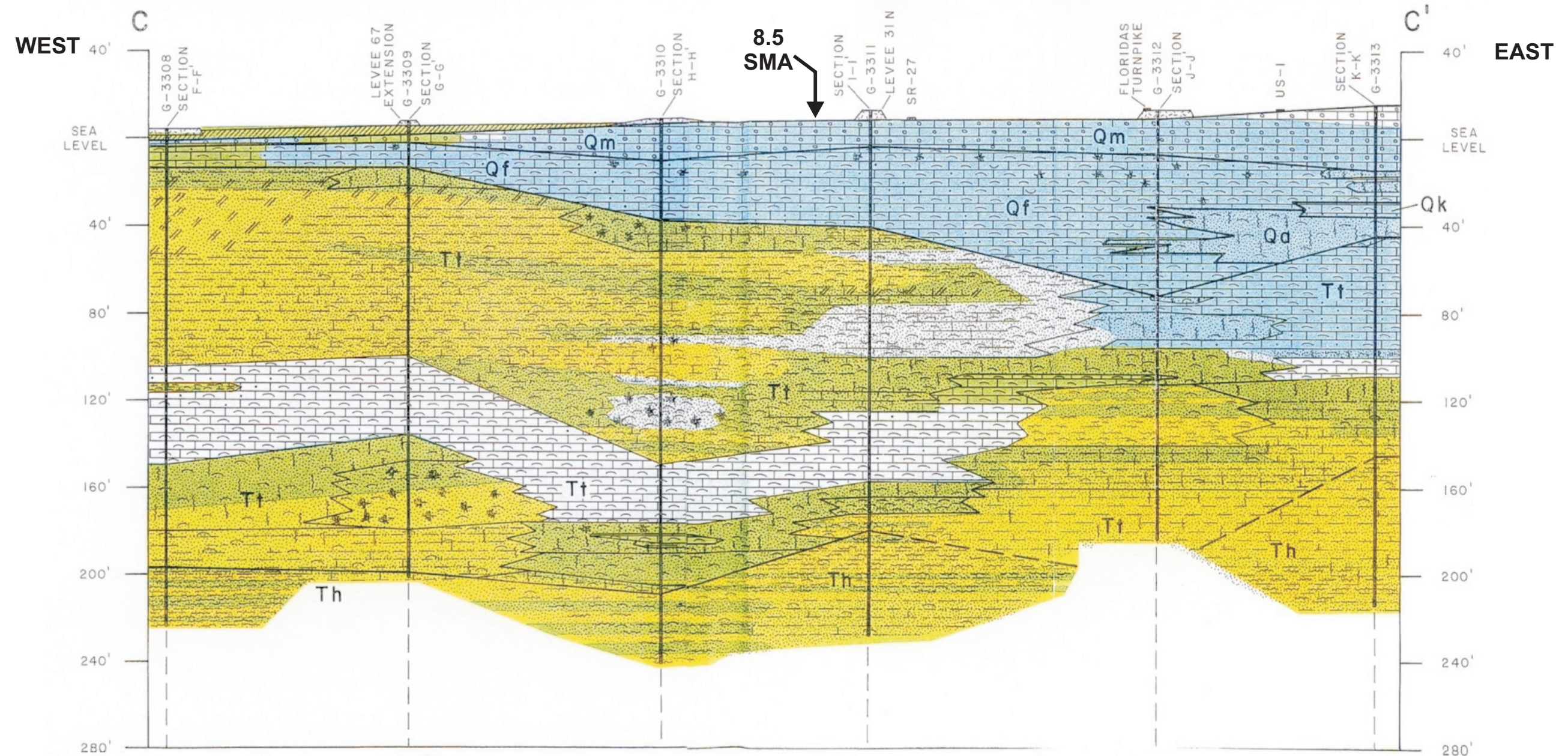
DEPARTMENT OF THE ARMY  
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JACKSONVILLE, FLORIDA

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FILE NO: \_\_\_\_\_









## EXPLANATION

	Fill		Freshwater shells
	Peat or muck		Silt
	Sand		Clay
	Sandstone		Claystone or siltstone
	Detrital carbonate sand		Micrite, lime mud
	Rock fragments		Limestone
	Concretions		Oolitic limestone
	Marine shells		Coralline limestone, biolithite

### GEOLOGIC FORMATIONS

Ql	Lake Flirt Marl
Qp	Pamlico Sand
Qm	Miami Oolite
Qa	Anastasia Formation
Qk	Key Largo Limestone
Qf	Fort Thompson Formation
Tt	Tamiami Formation
Th	Hawthorn Formation
Tth	Tamiami Formation and Hawthorn Formation undifferentiated

### RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY

	Greater than or equal to 1,000
	100 to 1,000
	10 to 100
	0.1 to 10
	Less than or equal to 0.1

G-3295

Test well  
and number

Formation  
boundary

CENTRAL AND SOUTHERN FLORIDA  
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### FIGURE 9 HYDROGEOLOGIC CROSS-SECTION

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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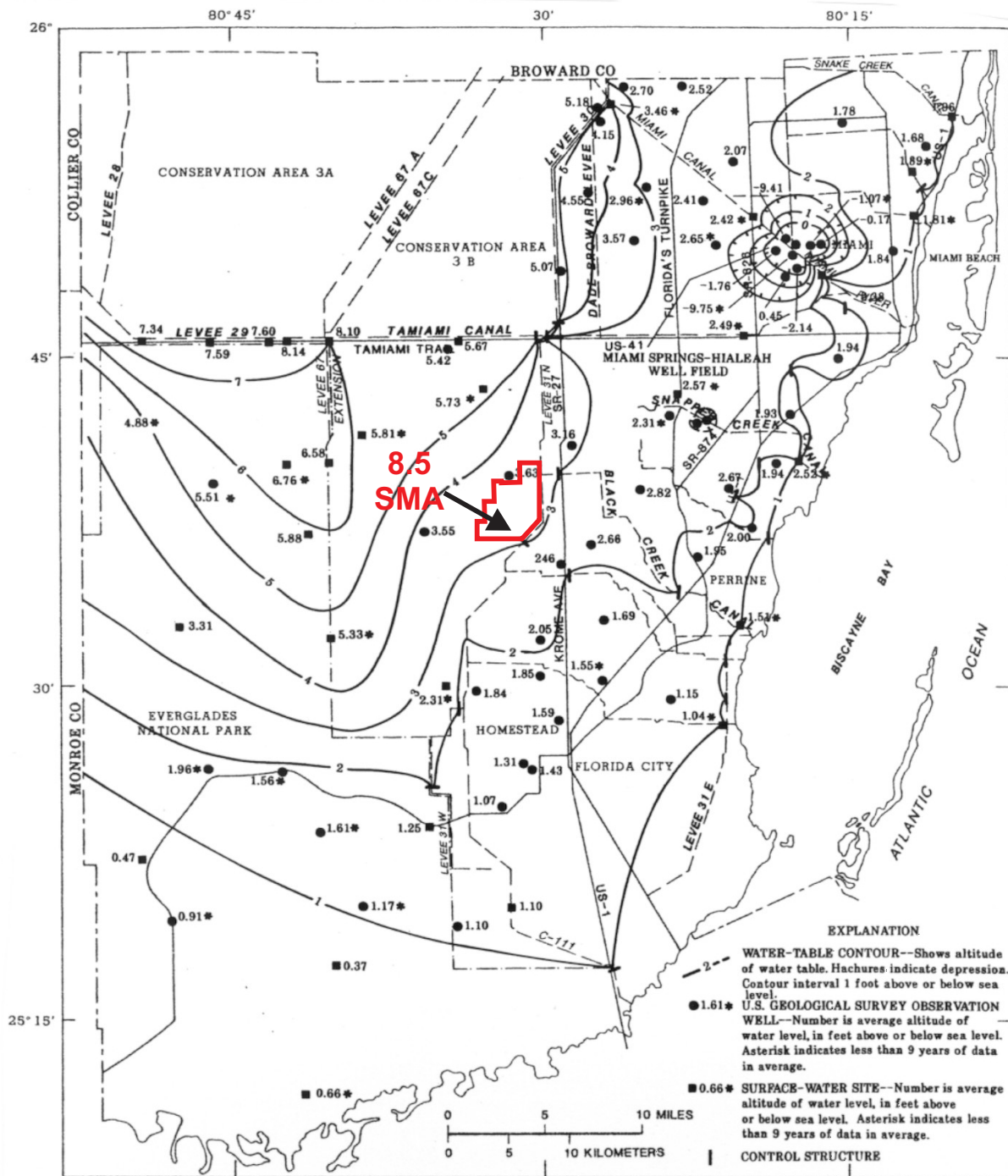


Figure 19. Average configuration of the water table in Dade County in April based on the period 1974-82.

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### FIGURE 10 AVERAGE DRY SEASON WATER TABLE

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JACKSONVILLE, FLORIDA

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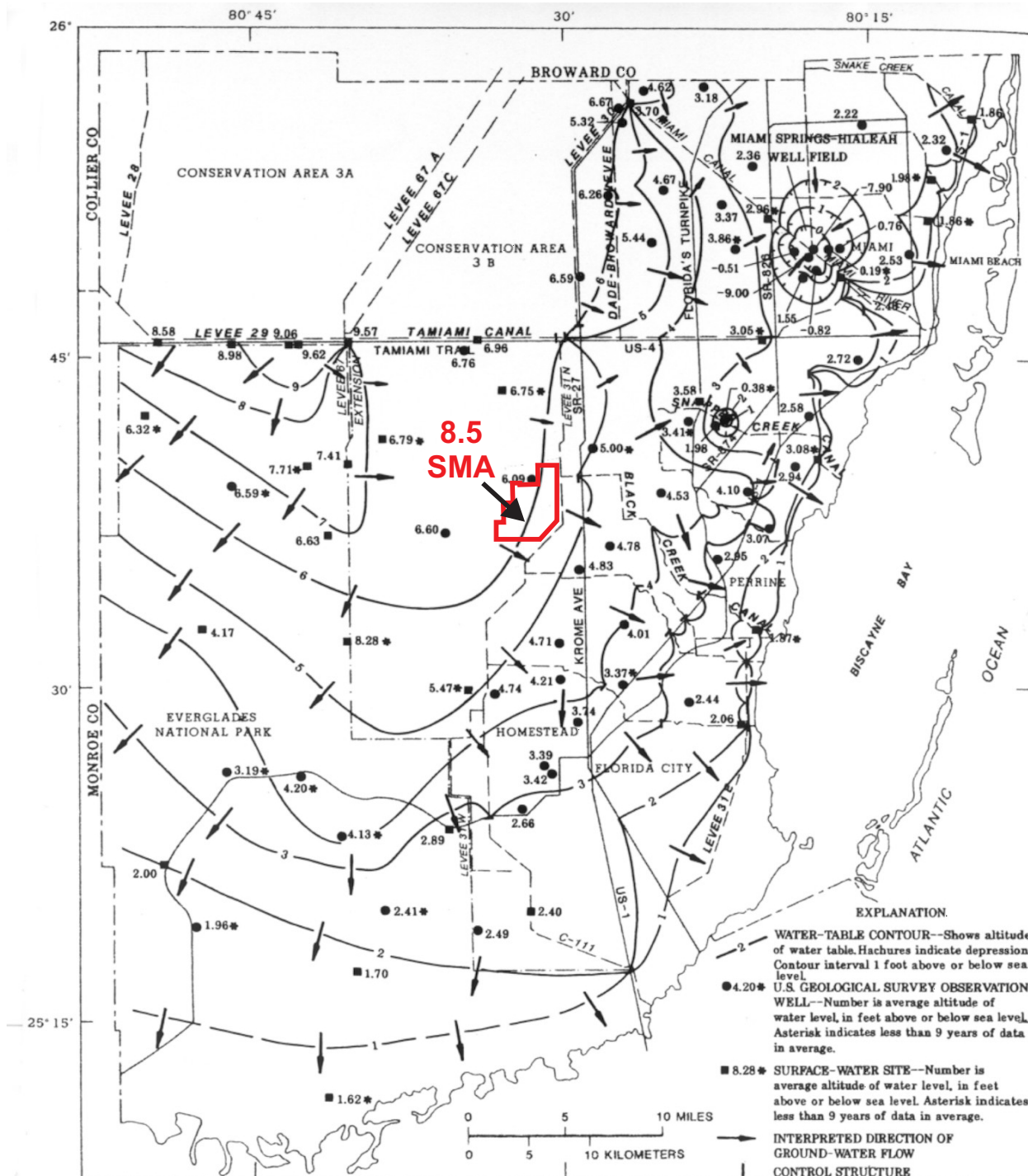


Figure 18. Average configuration of the water table in Dade County in September and interpreted directions of ground-water flow based on the period 1974-82.

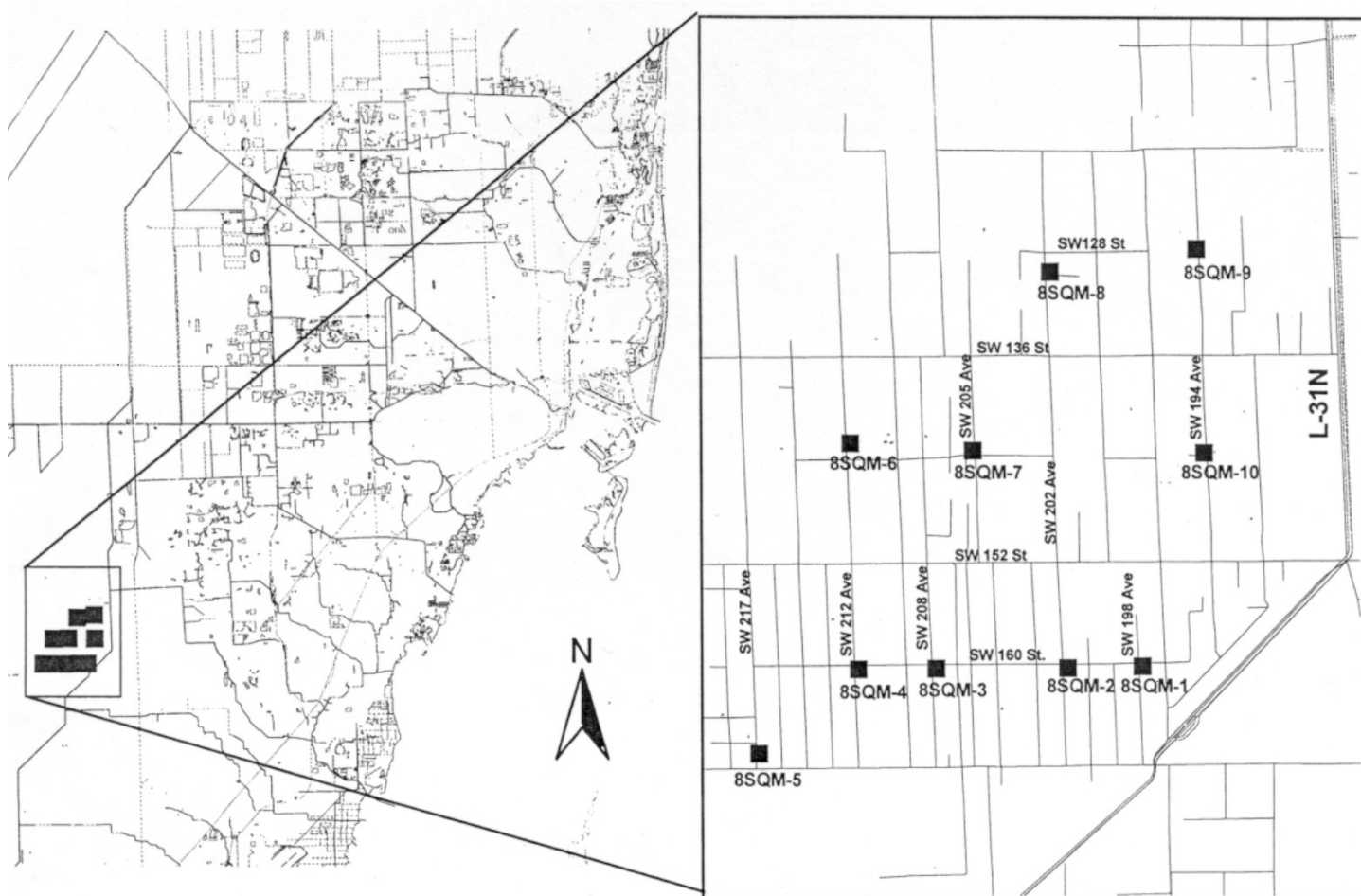
CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
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### FIGURE 11 AVERAGE WET SEASON WATER TABLE

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JACKSONVILLE, FLORIDA

TO ACCOMPANY PLANNING DOCUMENT DATED: \_\_\_\_\_  
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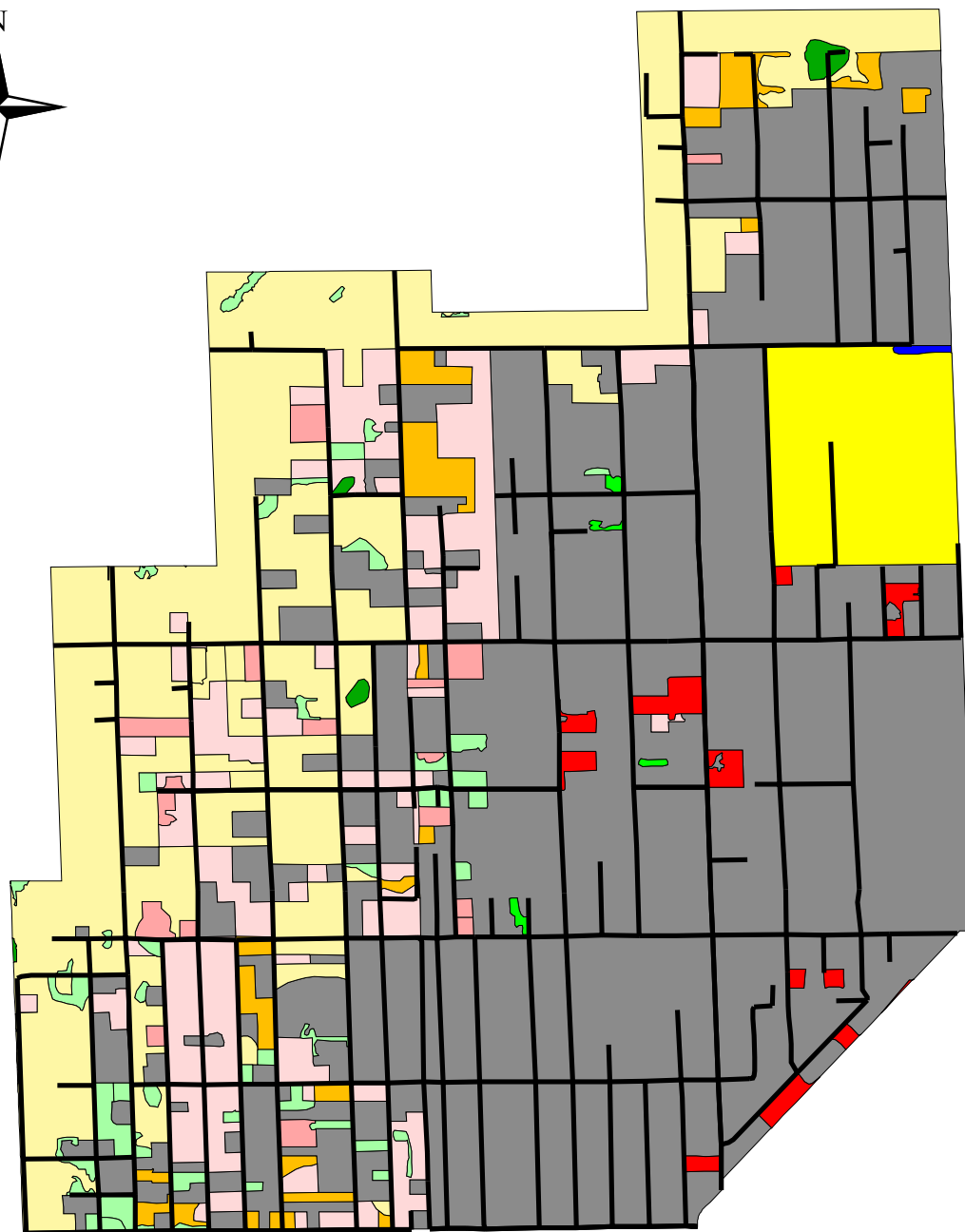


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8.5 SQUARE MILE AREA

### FIGURE 12 - SURFACE (STANDING) WATER SAMPLING SITES

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JACKSONVILLE, FLORIDA

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- Agricultural/Residential
- Forested Native Wetland (<7.0 ft elev)
- Forested Exotic Wetland (7-7.5 ft elev)
- Forested Exotic Wetland (<7.0 ft elev)
- Graminoid Wetland (<7.0 ft elev)
- Graminoid Wetland (7.0-7.5 ft elev)
- Herbaceous Wetland - High Soil Disturbance (<7.0 ft elev)
- Herbaceous Wetland - Low to Mod. Soil Disturbance (<7.0 ft e
- Shrubby Wetland (<7.0 ft elev)
- Upland Forest/Shrub Complex
- Open Water

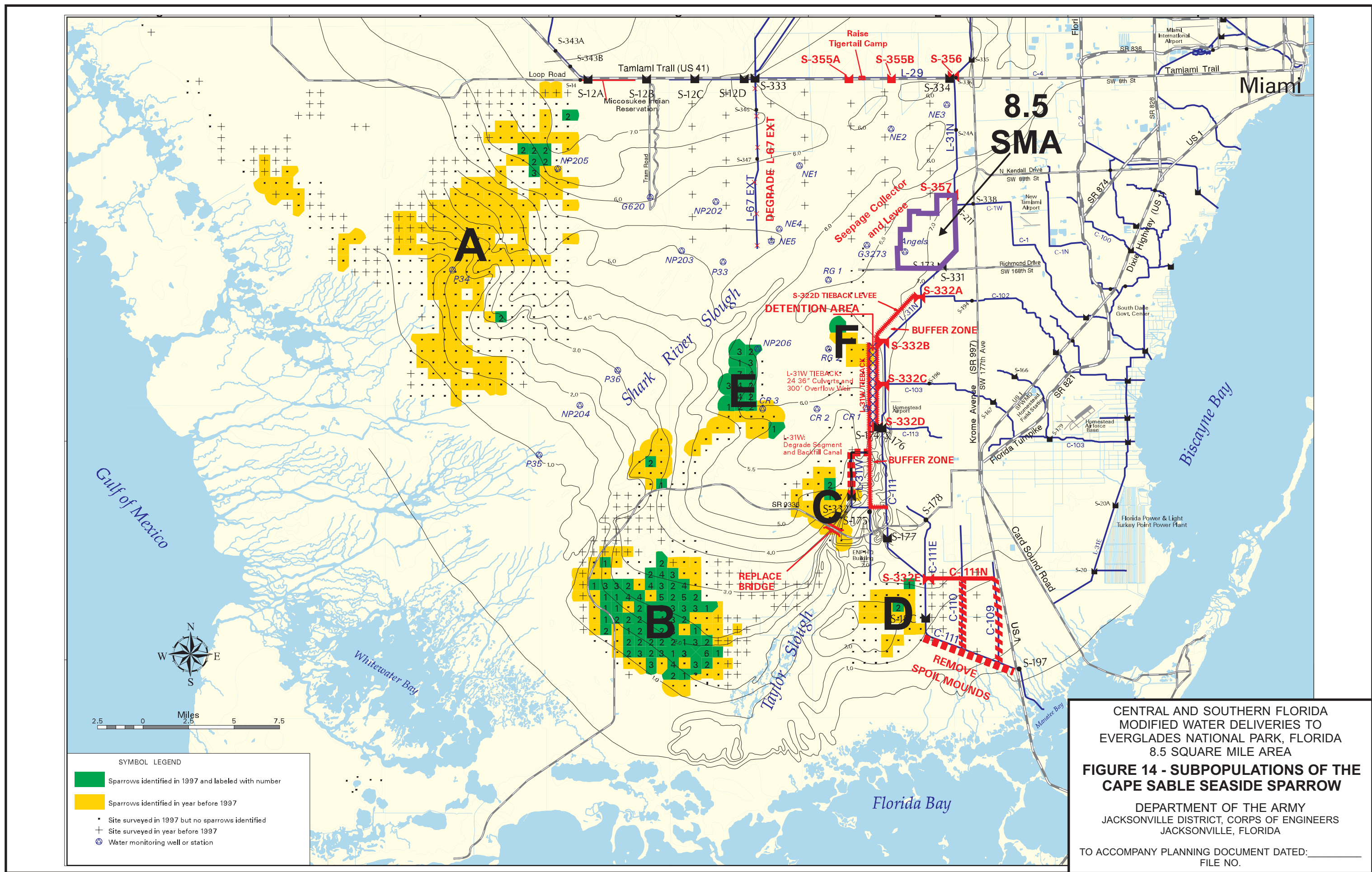
CENTRAL AND SOUTHERN FLORIDA  
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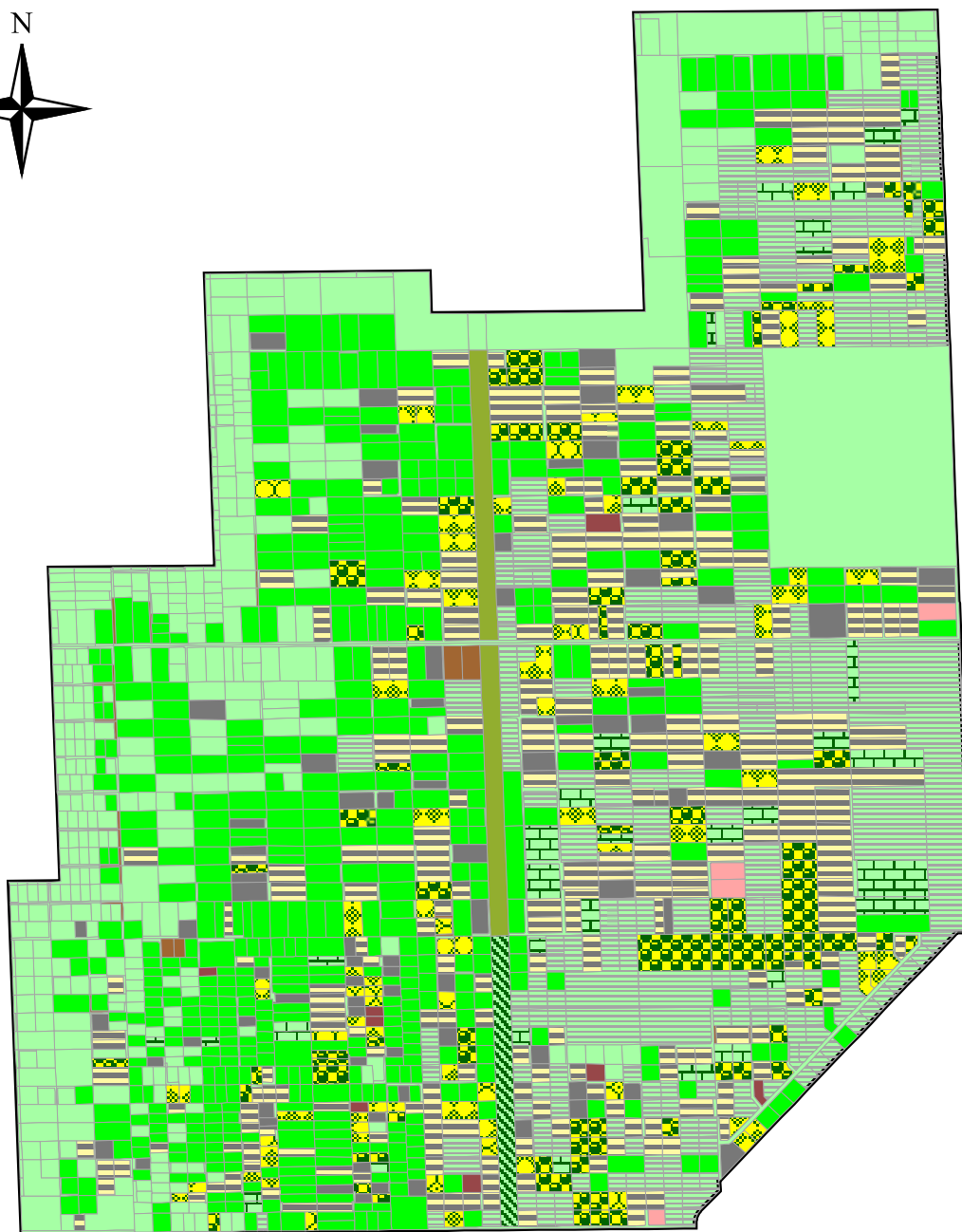
**FIGURE 13**  
**VEGETATIVE COMMUNITIES**

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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FILE NO: \_\_\_\_\_







- Commercial (16 acres)
- Mixed Agriculture (160 acres)
- Mixed Agriculture/Utility (40 acres)
- Nursery (39 acres)
- Public (1,319 acres)
- Residential (212 acres)
- Residential with Agriculture (959 acres)
- Row Crop (1,052 acres)
- Rural Land in Transition (17 acres)
- Specialty Farm (212 acres)
- Tree Crop (314 acres)
- Undedicated ROW (22 acres)
- Utilities (80 acres)
- Vacant (1,669 acres)

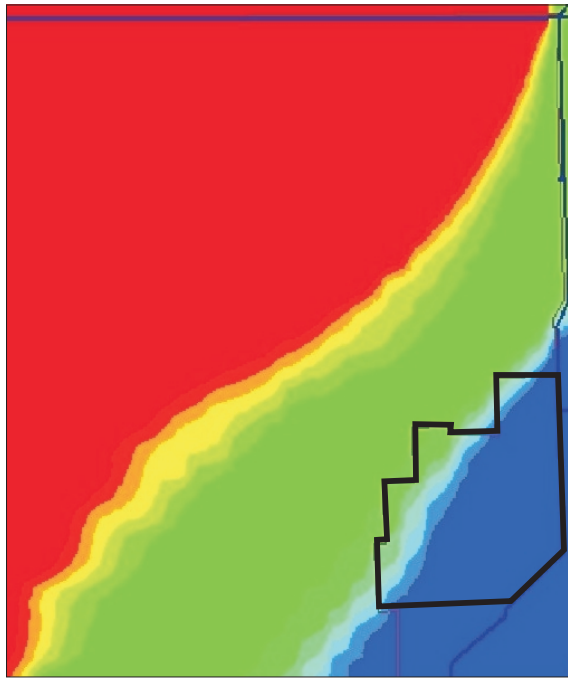
CENTRAL AND SOUTHERN FLORIDA  
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**FIGURE 15**  
**EXISTING LAND USE**

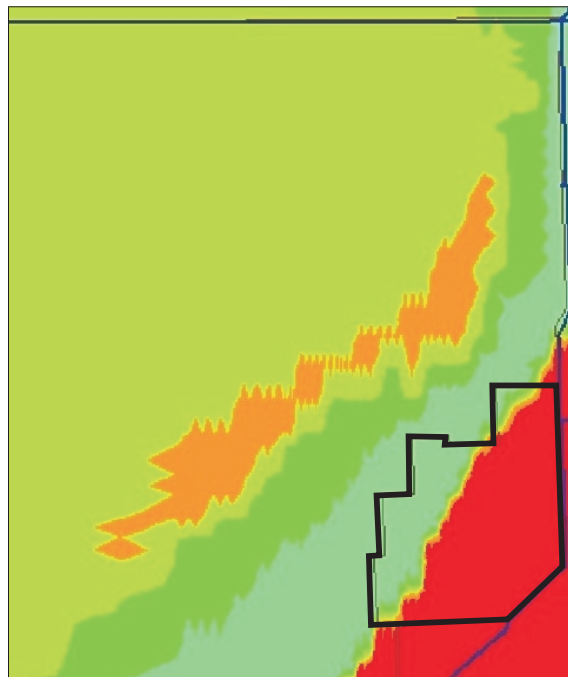
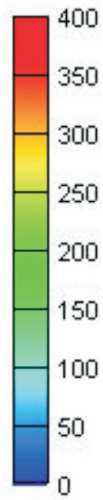
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FILE NO: \_\_\_\_\_









## HYDROPERIOD



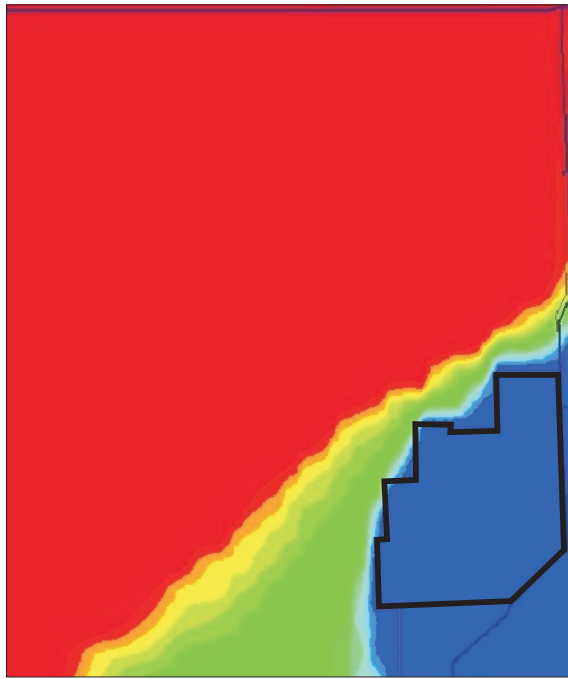
## WETLANDS

-  **Peat-Forming:** Depth > 2',  
Hydroperiod > 180 days
-  **Peat-Forming:** -1' < Depth < +2',  
Hydroperiod > 180 days
-  **Marl-Forming:** -1' < Depth < +2',  
30 < Hydroperiod < 180 days
-  **Upland**

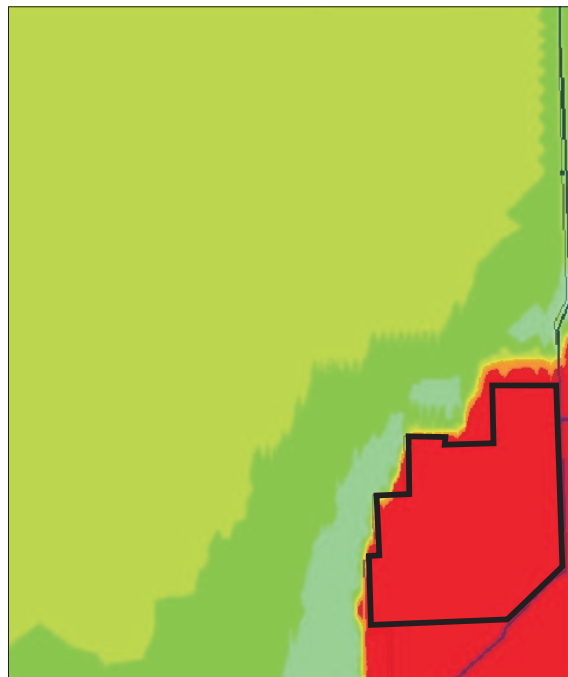
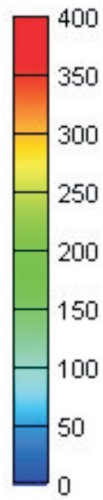
**NOTE:** Wetlands are defined by hydrology only.

CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
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8.5 SQUARE MILE AREA  
**FIGURE 16 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
EXISTING CONDITIONS**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA





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## HYDROPERIOD



## WETLANDS

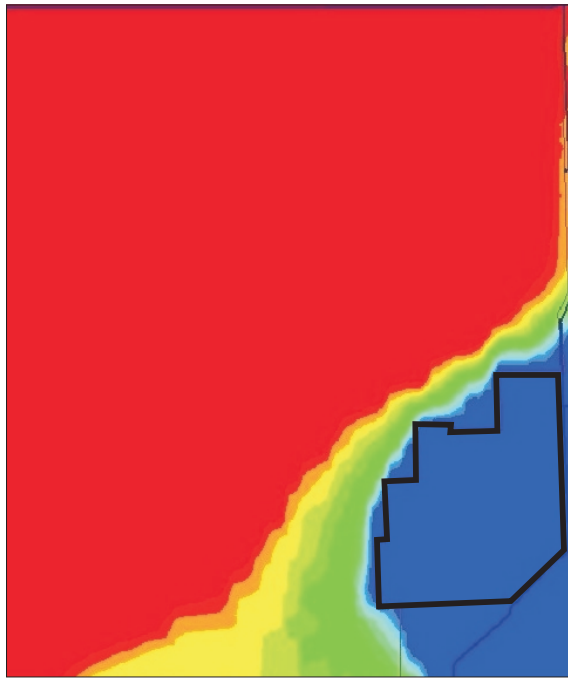
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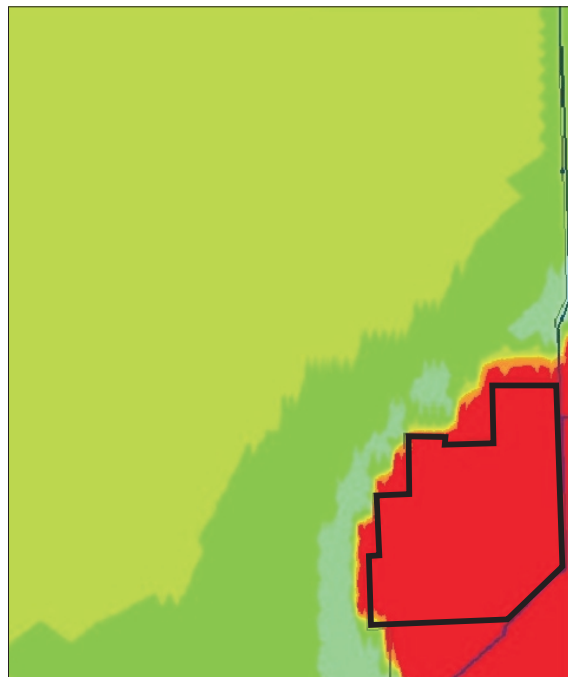
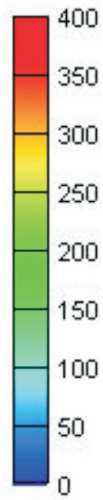
CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
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**FIGURE 17 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
ALTERNATIVE 1**  
DEPARTMENT OF THE ARMY  
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JACKSONVILLE, FLORIDA

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## HYDROPERIOD



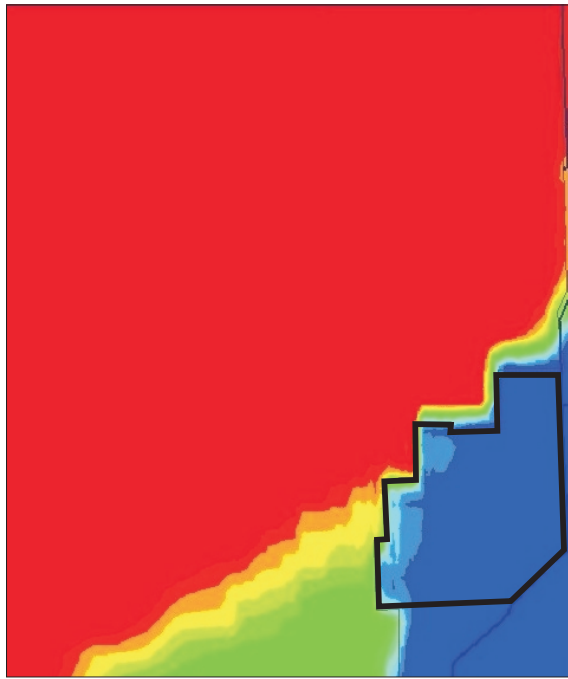
## WETLANDS

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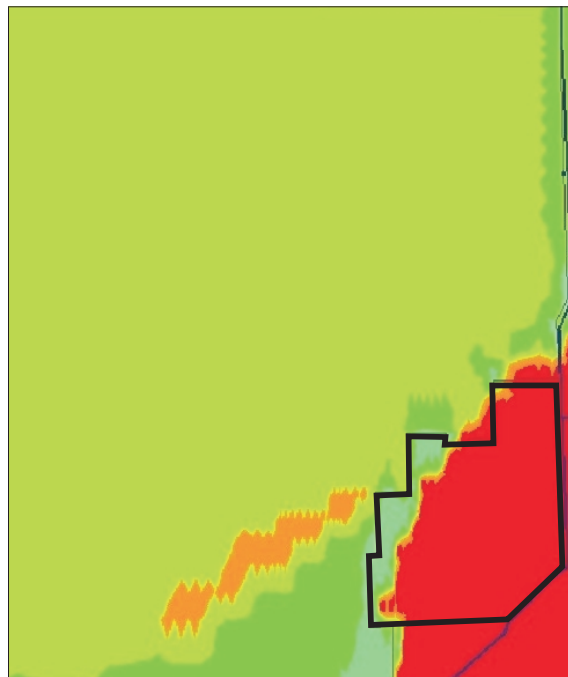
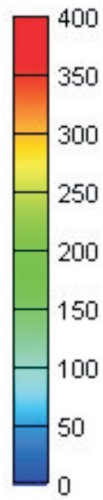
**NOTE:** Wetlands are defined by hydrology only.

CENTRAL AND SOUTHERN FLORIDA  
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8.5 SQUARE MILE AREA  
**FIGURE 18 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
ALTERNATIVES 2B & 9**  
DEPARTMENT OF THE ARMY  
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JACKSONVILLE, FLORIDA

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## HYDROPERIOD



## WETLANDS

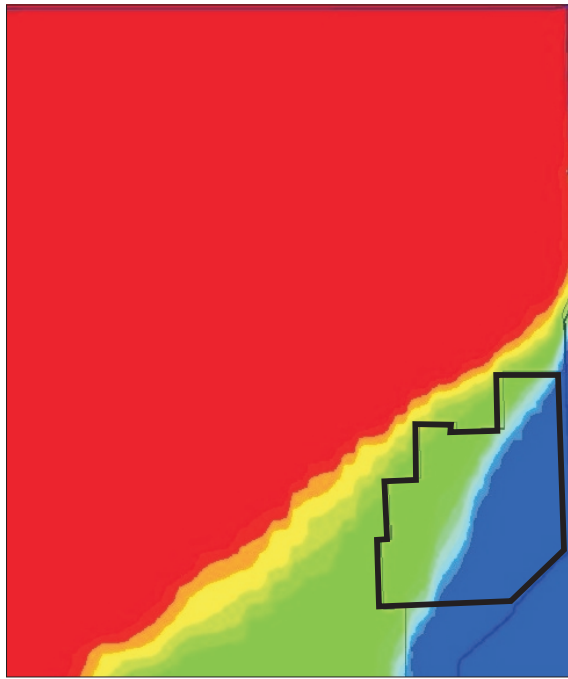
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30 < Hydroperiod < 180 days
- Upland**

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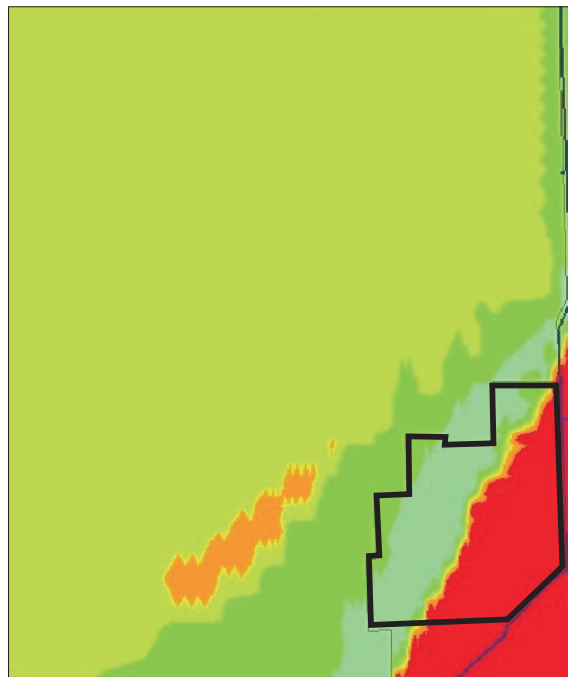
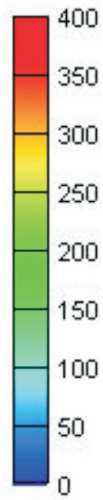
CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA  
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**FIGURE 19 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
ALTERNATIVE 3**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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## HYDROPERIOD



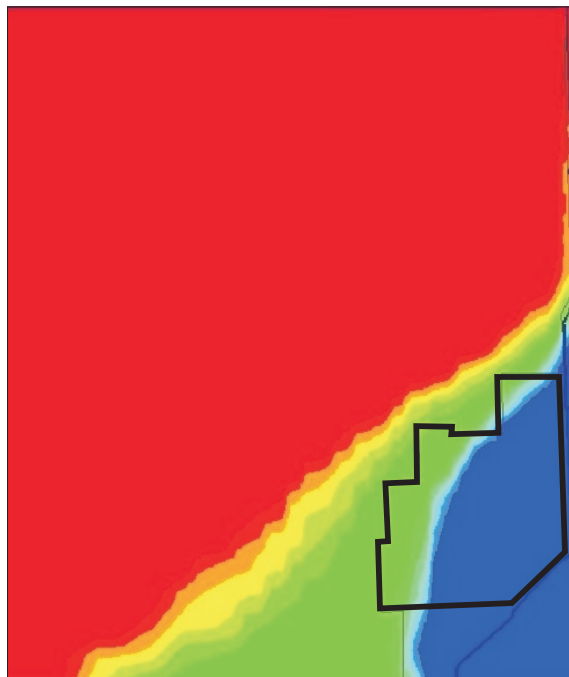
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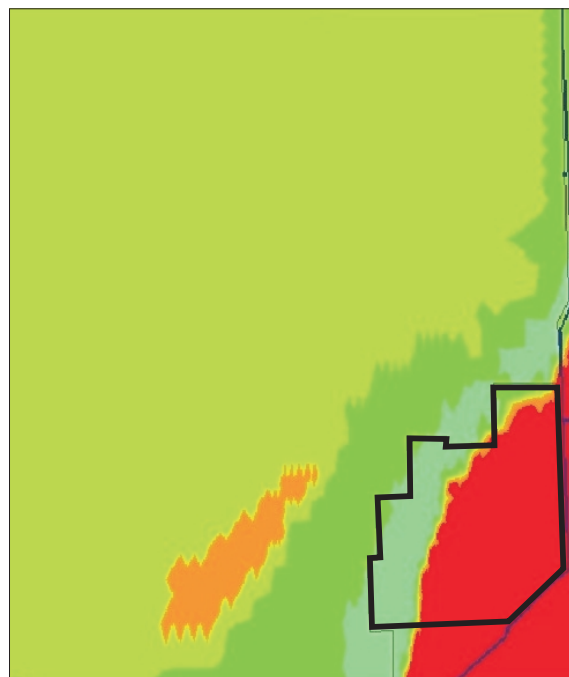
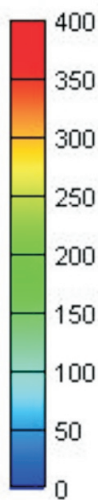
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CENTRAL AND SOUTHERN FLORIDA  
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8.5 SQUARE MILE AREA  
**FIGURE 20 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
ALTERNATIVES 4, 5, & 7**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA





TO ACCOMPANY PLANNING DOCUMENT DATED: \_\_\_\_\_  
FILE NO.



## HYDROPERIOD



## WETLANDS

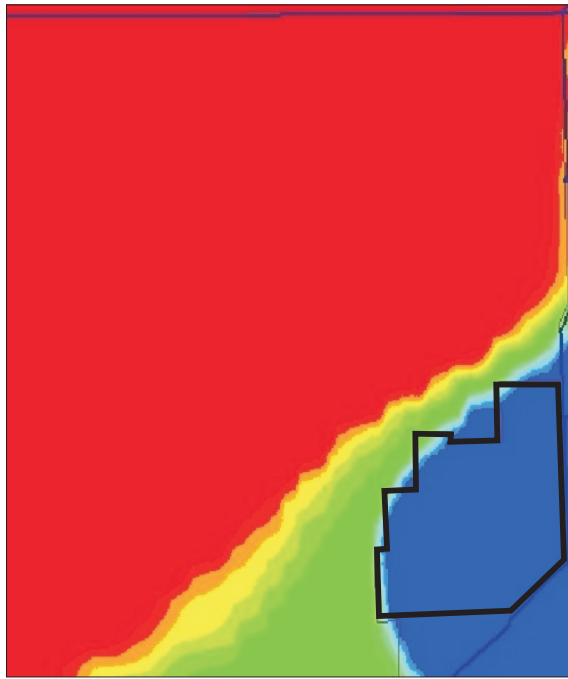
-  **Peat-Forming:** Depth > 2',  
Hydroperiod > 180 days
-  **Peat-Forming:** -1' < Depth < +2',  
Hydroperiod > 180 days
-  **Marl-Forming:** -1' < Depth < +2',  
30 < Hydroperiod < 180 days
-  **Upland**

**NOTE:** Wetlands are defined by hydrology only.

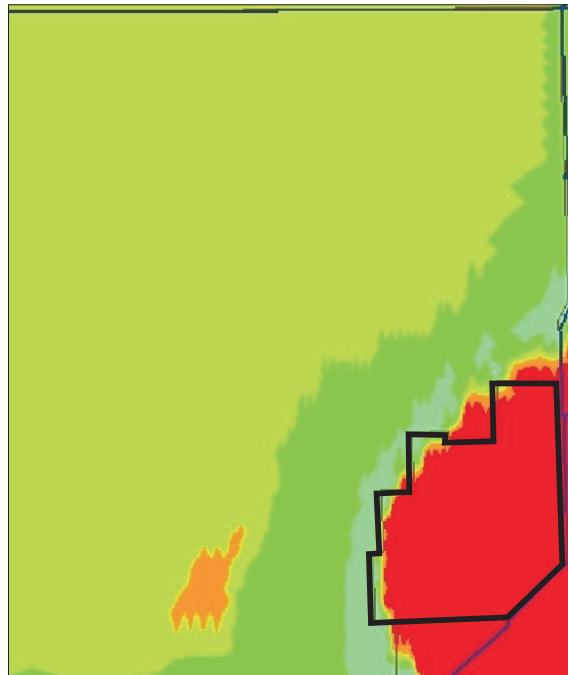
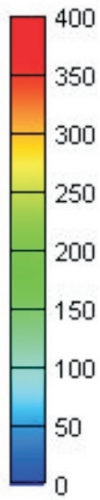
CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA  
8.5 SQUARE MILE AREA  
**FIGURE 21 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
ALTERNATIVE 6B**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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## HYDROPERIOD

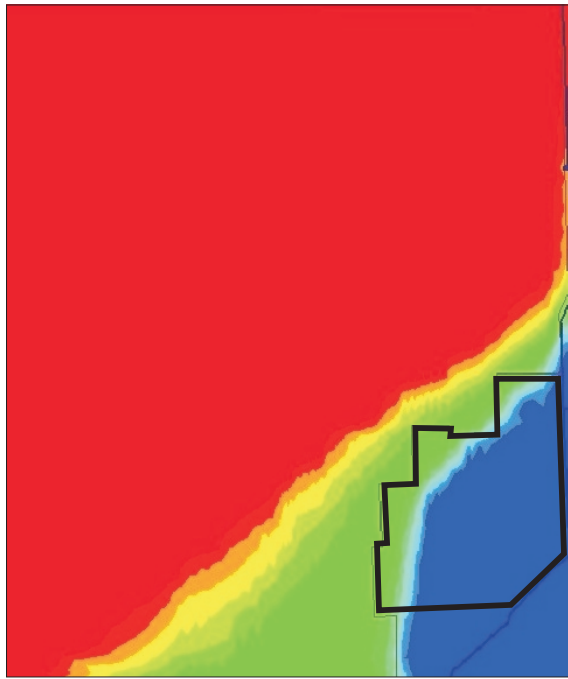


## WETLANDS

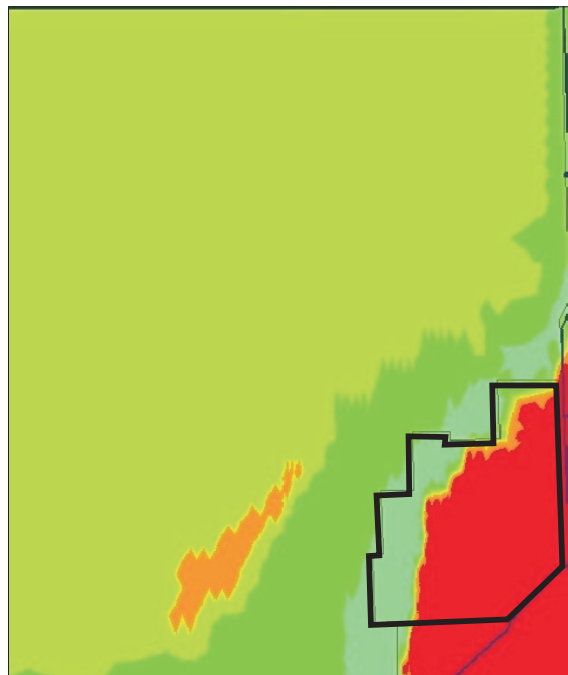
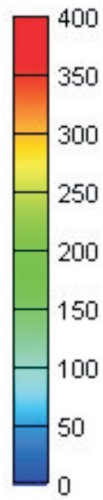
-  **Peat-Forming:** Depth > 2',  
Hydroperiod > 180 days
-  **Peat-Forming:** -1' < Depth < +2',  
Hydroperiod > 180 days
-  **Marl-Forming:** -1' < Depth < +2',  
30 < Hydroperiod < 180 days
-  **Upland**

CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA  
8.5 SQUARE MILE AREA  
**FIGURE 22 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
ALTERNATIVE 6C**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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## HYDROPERIOD



## WETLANDS

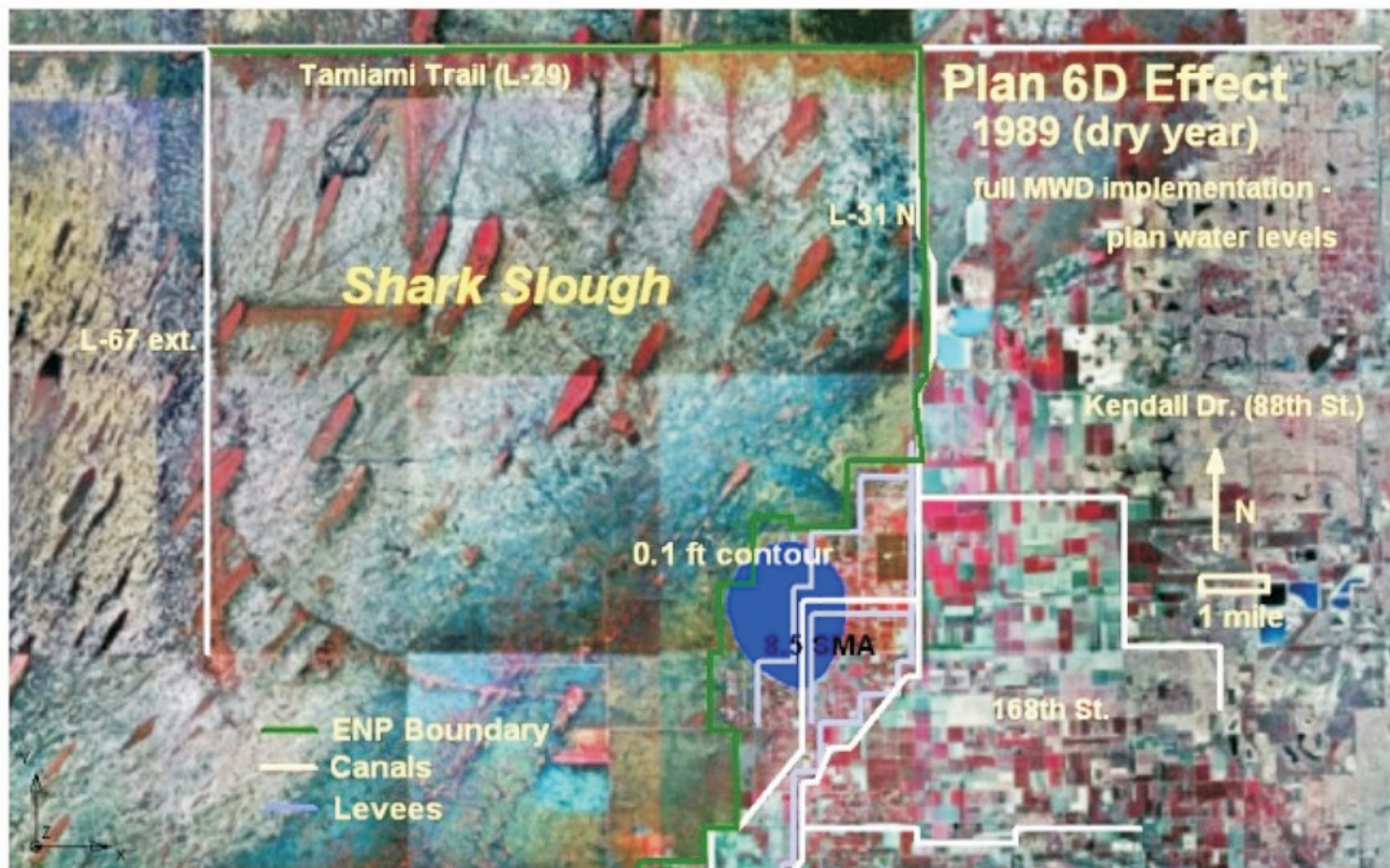
- Peat-Forming:** Depth > 2',  
Hydroperiod > 180 days
- Peat-Forming:** -1' < Depth < +2',  
Hydroperiod > 180 days
- Marl-Forming:** -1' < Depth < +2',  
30 < Hydroperiod < 180 days
- Upland**

**NOTE:** Wetlands are defined by hydrology only.

CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA  
8.5 SQUARE MILE AREA  
**FIGURE 23 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
ALTERNATIVE 6D**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

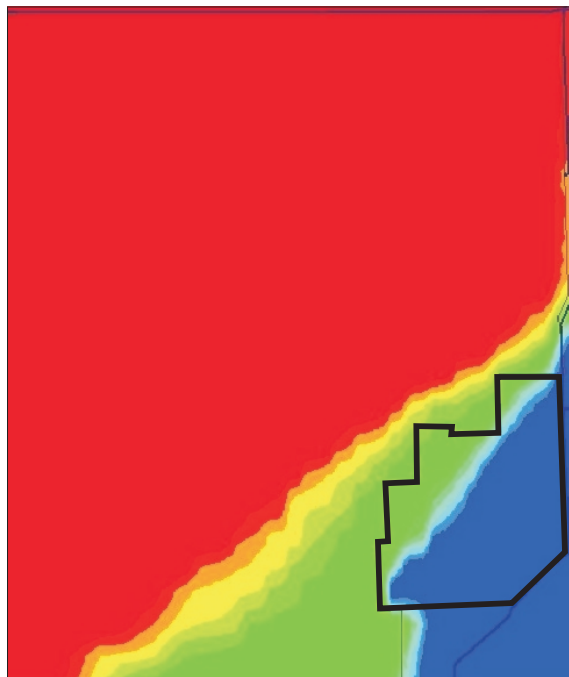
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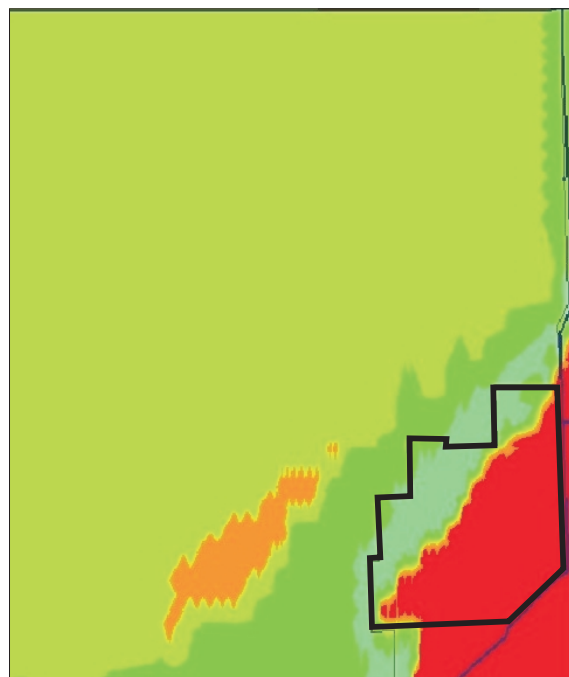
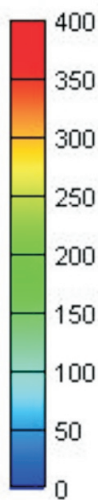


CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA  
8.5 SQUARE MILE AREA  
**FIGURE 24 - WATER LEVEL EFFECT OF  
ALTERNATIVE 6D RELATIVE TO  
FULL MWD IMPLEMENTATION**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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## WETLANDS

- Peat-Forming:** Depth > 2',  
Hydroperiod > 180 days
- Peat-Forming:** -1' < Depth < +2',  
Hydroperiod > 180 days
- Marl-Forming:** -1' < Depth < +2',  
30 < Hydroperiod < 180 days
- Upland**

**NOTE:** Wetlands are defined by hydrology only.

CENTRAL AND SOUTHERN FLORIDA  
MODIFIED WATER DELIVERIES TO  
EVERGLADES NATIONAL PARK, FLORIDA  
8.5 SQUARE MILE AREA  
**FIGURE 25 - SIMULATED WETLAND HYDRO-  
PERIODS AND SUBSTRATE CONDITIONS -  
ALTERNATIVE 8A**  
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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